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INFORMATION REPORT

PREPARED AND DISSEMINATED BY

CENTRAL INTELLIGENCE AGENCY

COUNTRY

SUBJECT

Societe Continentale Parker Projectile

PLACE ACQUIRED (By source)

DATE OF INFORMATION (Date report existed) 1994

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SUPPLEMENT TO REPORT #

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The have carried out comparative tests with the different products, Perhar 100, Bonderite 200, Granodine 200, Parker 180, and in every case we have applied the following two sets of treatments:

> A - Degreesing PARCO 406 - 44 - 90°F Cold rinse Hot rinee Treatment Cold rinse Hot rinse Drying

B - Same set, but with the introduction of de-ruster of Pageodine 74 at 25% for 10 minutes at a temperature of 60°F. The characteristics of the baths used are the following:

Parker 100:

35 ec/1.

Free scidity

Total saidity Patio

Temperature 85 F.

Bonderite 200: 62 g/l. of Bonderite 200 + 27 g/l. of Bonderite selt 200 A + 0.25 g/l. of nitrate of soda

> 34.4 Total scidity

> 6.2 Free acidity

Batio

5.5

Temperature 65°F. "

THE FRIAL US OFFICIALS

35 cc/l.

sture 850r.

Action 5.5

State acidity 30

State acidity 30

Amperature 80/85 r.

In each case we respected uniform intervals of 10 minutes in degressing, deringting and treatment. After treatment we carried out brine tests at S g/1. for 15 minutes (armement norms). We obtained the following that the second set with derugting:

Parker 180: No stain Bonderite 200: Very slight yellowing

Parker 100: Slight yellowing

Granodine 200: General yellowing and some rust spots.

15 · 多数被**定排作指数1** 用途配信 25 · 34 · 35 · 35 · 36 · 36 · 37 · 38 · The same tests with the set not including a derusting operation gave identical results but much less pronounced.

"All these products work under identical conditions. The ratio included is between 5.3 and 5.6. On the other hand, the presence of an secolarator is variable in each case, thus:

Parker 180 - NO3 - 13.5 g/1.

Parker 180 - NO3 - 13.5 g/l.

Bonderite 200 - NO3 - 18.5 "

Parker 100 - NO3 - 7.5 "

Granodine 200 - NO3 - 3.8 to 5 g/l. Granodine 200 - No3 -

This variable presence of an accelerator is motivated primarily for Memberite 200 by a lower utilization temperature, 65°F. On the other hand, for the other three products, we notice that the most stable reduct and the one giving the best results is the one which contains the highest quantity of accelerator (Parker 180).

True these tests, one can foresee for the treatment of projectiles:

- 4. For the treatment of hardened projectiles, the use of the product Parker 180
- 5. For the treatment of cast projectiles:
- a) If the projectiles are free from rust and calamine, Spra Bonderite 100 will be used
- b) If the shells are oxydized, Parker 100 can be used after having carried out derusting operations with

- "In the course of these tests, we have ascertained that:

 Bonderite 200 gives crystalline layers of very light gray, but the
 use of this product for the treatment of projectiles is made
 difficult by the very rapid formation of sludge; actually, since we
 must always keep a small portion of accelerator (nitrate of soda)
 in the bath, we precipitate the ferrous iron as it dissolves. It
 is, moreover, the absence of ferrous iron in the bath which
 characterizes the very pale color obtained.
- 8. "Parker 180 is a very stable product perfectly suited to the treatment of projectiles. The rise in ferrous iron is very slow, and, because of this, the bath closely approximates the DA; on the other hand, its rather low ratio (5.3) makes a much more active product of it, one which allows us to obtain a more pronounced phosphatization in a shorter time. This product stands very well the previous derusting operation in one set.
- 9. Such is not the case with the following two products:

Granodine 200 and Perber 100.

Grandine 200 and Parker 100 are quite unstable and the ferrous iron rises very rapidly; because of this fact it is necessary to watch the bath most attentively and to precipitate the ferrous iron often with nitrate of sods. On the other hand, these kinds of products give very important costs which resist corrosion well, on condition that the content of ferrous iron be maintained between 0.5 and 2 g/l. The treatment periods are very short, about five to 10 minutes."

